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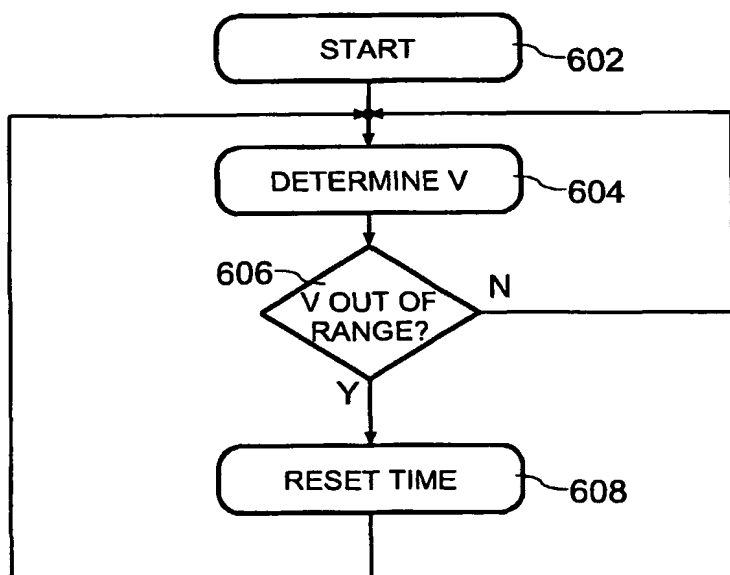
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(54) Title: MEASUREMENT OF CHANNEL CHARACTERISTICS IN A COMMUNICATION SYSTEM



(57) Abstract: A communication system comprises a downlink data channel for the transmission of data packets from a primary station to a secondary station and uplink and downlink control channels. The secondary station measures one or more characteristics of the data channel and issues a report to the primary station, which determines an operational parameter of the data channel in response to the report. The secondary station determines average channel characteristics over a measurement period. The length of the measurement period may be signalled by the primary station or determined directly by the secondary station. In one embodiment the selected period depends on the speed (V) of the secondary station. This is determined (604) by either station and tested to determine (606) whether it is outside the range for the current measurement period: if it is the period is reset (608).

INTERNATIONAL SEARCH REPORT

PCT/IB 03/02673

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B17/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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IPC 7 H04B H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 52846 A (HAARDT MARTIN ;SCHULZ EGON (DE); SIEMENS AG (DE); DILLINGER MARKUS) 8 September 2000 (2000-09-08)	1-5, 10-15,18
Y	page 1, line 11 - line 23 page 2, line 36 -page 3, line 10 page 5, line 30 - line 33; figure 1 page 7, line 30 -page 8, line 4; figure 3 claims 1,2,11	6-8,17
Y	EP 1 081 875 A (LUCENT TECHNOLOGIES INC) 7 March 2001 (2001-03-07) paragraph '0016! - paragraph '0017! paragraph '0025!; figure 3 -/--	6-8,17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 128 573 A (NIPPON ELECTRIC CO) 29 August 2001 (2001-08-29) paragraph '0018! paragraph '0162! claims 7-9	1-18
A	HOLTZMAN J M: "Adaptive measurement intervals for handoffs" DISCOVERING A NEW WORLD OF COMMUNICATIONS. CHICAGO, JUNE 14 - 18, 1992. BOUND TOGETHER WITH B0190700, VOL. 3, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, IEEE, US, vol. 4, 14 June 1992 (1992-06-14), pages 1032-1036, XP010061954 ISBN: 0-7803-0599-X abstract page 1032, right-hand column, paragraph 2 - paragraph 3 first paragraph in section 5	1-18

INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0052846	A	08-09-2000	DE	19909299 A1	21-09-2000
			WO	0052846 A2	08-09-2000
EP 1081875	A	07-03-2001	CA	2316491 A1	28-02-2001
			EP	1081875 A2	07-03-2001
			JP	2001111483 A	20-04-2001
EP 1128573	A	29-08-2001	JP	2001238251 A	31-08-2001
			CA	2337736 A1	23-08-2001
			EP	1128573 A2	29-08-2001
			US	2001016499 A1	23-08-2001